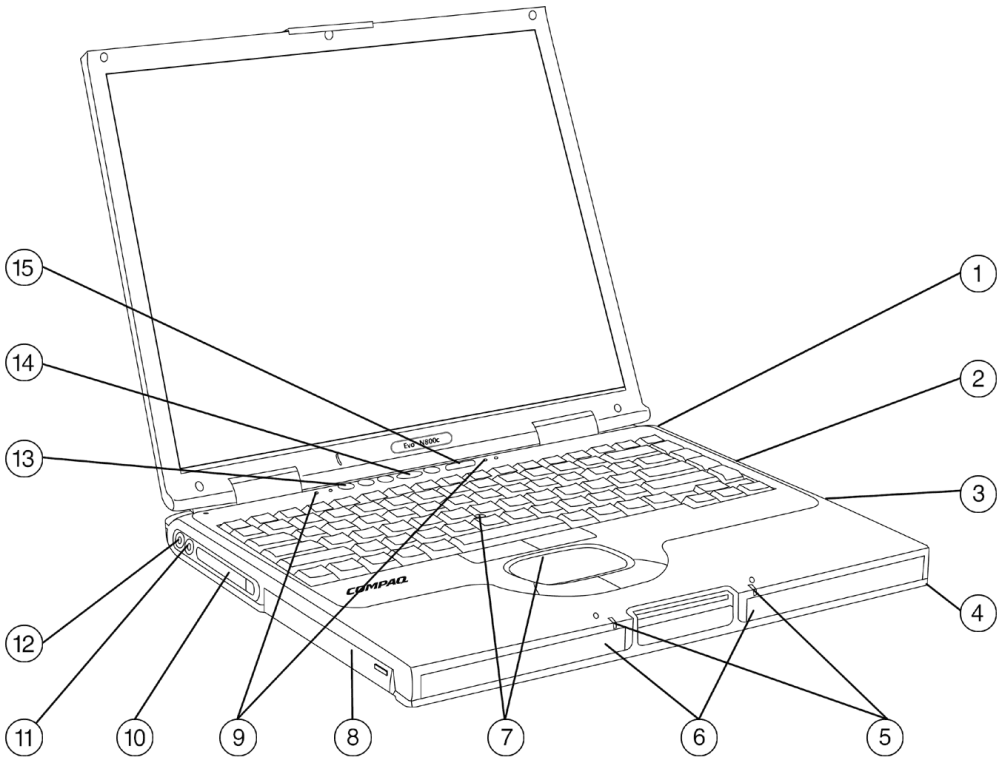
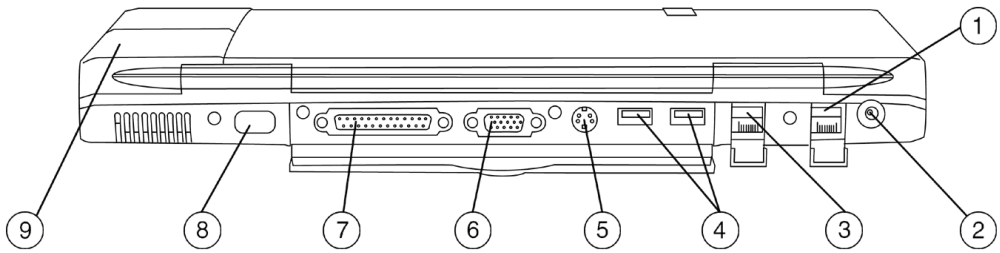
Overview



1. Kensington Lock
2. Air Vent
3. Hard Drive
4. Battery
5. System LEDs
6. Stereo Speakers
7. Dual Pointing Devices
8. MultiBay
9. Keyboard LEDs
10. PC Card Slot
11. Headphone
12. Audio In
13. Easy Access Buttons
14. Power Button
15. Volume Control



1. RJ-45
2. DC In
3. RJ-11
4. (2) USB Ports
5. S-Video
6. VGA
7. Parallel
8. Infrared
9. MultiPort

Overview

What's New

- Mobile Intel® Pentium® 4 Processor-M – up to 2.4 GHz
- 400-MHz Front side bus
- 4X AGP Graphics
- USB 2.0
- MultiPort wireless communication options
- Sophisticated design elements
- Dual Pointing Device

At A Glance

- Mobile Intel Pentium 4 Processor-M – up to 2.4 GHz
- 15-inch XGA, SXGA+, and UXGA
- Magnesium enclosure for the 15-inch panels
- Configurations as light as 5.82lb/2.64 kg weight 1.4 in/3.5 cm thin
- 256-MB DDR SDRAM (266 MHz), upgradeable to 1024 MB
- Up to 60-GB/5400 rpm and 40GB 4200 rpm SMART hard drives
- Mini PCI modem and integrated NIC
- Full-size keyboard
- Microsoft® Windows®XP Pro or Microsoft Windows 2000
- Includes a Three-year, Worldwide Warranty. —Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center for details.

What's Special

- Thin and light design
- High-end graphics and large panel sizes
- USB 2.0
- Large hard drives
- Wireless features thru Award-Winning MultiPort

Standard Features

Processors One of the following	2.4 GHz on Mobile Intel Pentium 4 processor-M with 400-MHz Front Side Bus and 512 KB L2 cache 2.2 GHz on Mobile Intel Pentium 4 processor-M with 400-MHz Front Side Bus and 512 KB L2 cache 2.0 GHz on Mobile Intel Pentium 4 processor-M with 400-MHz Front Side Bus and 512 KB L2 cache 1.8 GHz on Mobile Intel Pentium 4 processor-M with 400-MHz Front Side Bus and 512 KB L2 cache 1.9 GHz on Mobile Intel Pentium 4 processor-M with 400-MHz Front Side Bus and 512 KB L2 cache NOTE: Mobile Intel Pentium 4 processor-M supports enhanced Intel SpeedStep technology NOTE: Mobile Intel Pentium processors featuring Intel SpeedStep technology, speed denotes maximum performance mode; battery optimization mode is approximately 80% of maximum performance mode. NOTE: Mobile Intel Pentium 4 processor-M supports enhanced Intel SpeedStep technology. NOTE: Mobile Intel Pentium processors featuring Intel SpeedStep technology, speed denotes maximum performance mode; battery optimization mode is approximately 80% of maximum performance mode.	
Display One of the following:	External Support	15-inch color TFT UXGA with 1600 x 1200 resolution (up to 16.7M colors internal) 15-inch color TFT SXGA+ with 1400 x 1050 resolution (up to 16.7M colors internal) 15-inch color TFT XGA with 1024 x 768 resolution (up to 16.7M colors internal)
	Standard	Up to 32-bit per pixel color depth Supports 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, or 2048 x 1536 resolutions up to 160-Hz refresh rate, dependent upon monitor capability, resolution and color depth settings
Memory	Standard	256MB (266 MHz) DDR SDRAM (256 MB SODIMM in slot 1) or 512 MB (266MHz) DDR SDRAM (512 MB SODIMM in slot 1)
	Maximum	1GB (266 MHz) DDR SDRAM (512 MB SODIMMs in slots 1 and 2)
	NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend Compaq branded memory to ensure compatibility.	
Communications	10/100 NIC is integrated on the system board (LOM) Type III Mini PCI 56K (V.92) modem NOTE: Designed only to allow faster downloads from V.92 compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. NOTE: Modem availability is subject to country regulatory approval	
Keyboard	102-key compatible keyboard with isolated, inverted-T cursor control keys, and right-control key, special feature hotkeys for instant access to power conservation, toggle between internal and external, or simultaneous displays, and control brightness and contrast.	
Easy Access Internet Buttons	The Evo Notebook N800c features three Easy Access Buttons (EAB) designed to increase customer productivity by providing one-touch access to helpful Compaq information, favorite Internet destinations, or default e-mail application. The EAB portion of the keyboard deck also includes dedicated hardware volume control and a quick-launch button for CD/DVD play.	
Pointing Device	Dual pointing devices (both pointstick and touchpad)	
PC Card Slots	One Type II PC Card Slot which support both 32-bit CardBus and 16-bit PC Cards	

Standard Features

Storage	Primary Hard Drive	60-GB 5400 RPM 40-GB 5400 RPM 40-GB 4200 RPM 30-GB 4200 RPM
	Optical Drives	DVD-CD-RW or DVD-ROM or CD-ROM
	PC Cards	One Type II

Multimedia

JBL Pro Speakers with bass reflex and 16bit stereo sound
Integrated microphone
Dedicated Hardware volume controls
Headphone-out port
Microphone-in port
Software MPEG1 support, MPEG2 and DVD
8X DVD/CD-RW Combination Drive (on select models)
8X DVD-ROM Drive with movie playback software (on select models)
24X CD-ROM Drive (on select models)
S-video Port
4X AGP graphics
32MB or 64MB of DDR (Double Date Rate) SDRAM

Interfaces	PC Card	1
	Enhanced Parallel EPP/ECP	1
	S-Video	1
	VGA	1
	Port Replicator	1
	Headphone/Line-out	1
	Microphone in	1 (4 Mb/s support) (IrDA 4 MB compliant. IR performance will vary depending on performance of IR peripherals and application used.)
	DC Power	1
	RJ-11 (modem)	1
	RJ-45 (NIC)	1
	Infrared Port	1
	USB Port	2
	LED status indicators	6

Graphics

ATI Mobility Radeon 7500, 64-bit video graphics with 32- or 64-MB VRAM for increased color depth and graphics performance

Operating System

Microsoft Windows XP Pro or
Microsoft Windows 2000 preinstalled

Standard Features

Software	Compaq Insight Management Agents Diagnostics for Microsoft Windows DVD Playback Software Compaq Security Management Safety and Comfort Guide Acrobat Reader Reference Guide Compaq Easy Access Button Software Altiris eXpress Client Software
System Recovery	Each unit is shipped with a series of CDs in a kit for quick OS recovery (erases hard disk and restores manufacturer installed image) and software recovery (installs only selected standard software)
Intelligent Manageability	Intelligent Manageability, a key component of HP PC Lifecycle Solutions, is the broad set of manageability features found on Evo client and ProLiant server products. These manageability features on PC clients comply with industry standards, such as DMI/, SMBIOS, PXE, and WBEM, while pioneering new ground in client manageability. Compaq introduced the industry's first line of manageable clients in 1995. With the combination of Compaq and HP in 2002 HP, and HP's lifecycle management philosophy, enterprises have all of the pieces for end-to-end management and proven tools for hassle-free management of PCs. The combination of these tools significantly lowers the Total Cost of Ownership of managing the computing environment. Intelligent Manageability offers solutions in the areas of Initial Configuration and Deployment, Asset Tracking and Security, Software Updating and Management, and Fault Notification and Recovery. For more information, visit these websites: http://www.compaq.com/im; http://www.compaq.com/easydeploy; http://www.compaq.com/solutions/pcsolutions
Security	Configuration Control Hardware Memory Change Alert Ownership Tag Set-up Password Power-On Password DriveLock Enabled for PC SmartCard options Kensington Lock
Power Supply	External 65-watt AC adapter, 6-foot/1.8-meter power cord included. Total length including External AC adapter is 12 feet/3.66 meter
Battery	The Evo Notebook N800c provides up to 4 hours of battery life using the standard 8-cell Lithium-Ion battery; up to 8 hours with the addition of the MultiBay battery. **NOTE:** Actual results may vary with product model, configuration, and individual usage. Compaq results of 3:50 (hr:min) were achieved running the Business Winstone 2001 Battery Mark 1.0 on a N800c with a Intel Pentium 4-M 1.7 GHz CPU, 15-inch UXGA panel, 256-MB RAM, 40-GB HDD, 8X DVD, 8-cell Lithium-Ion battery, and NIC/modem. System parameters were set according to eTesting Labs' recommendations: panel brightness 50%, hard drive timer three minutes. **NOTE:** Actual results may vary with product model, configuration, and individual usage. Compaq results of 8:00 (hr:min) were achieved running the Business Winstone 2001 Battery Mark 1.0 on a Evo Notebook N800c with a Intel Pentium 4-M 1.7 GHz CPU, 15-inch UXGA panel, 256-MB RAM, 40-GB HDD, 8X DVD, 8-cell Lithium-Ion battery, 8-cell Lithium-ion MultiBay battery and NIC/modem. System parameters were set according to eTesting Labs' recommendations: panel brightness 50%, hard drive timer three minutes. **NOTE:** This test was performed without independent verification by eTesting Labs Inc. eTesting Labs Inc. makes no representations or warranties as to the result of the test. BatteryMarkä is a trademark of Ziff Davis Publishing Holdings Inc., and affiliate of eTesting Labs Inc., in the U.S. and other countries.

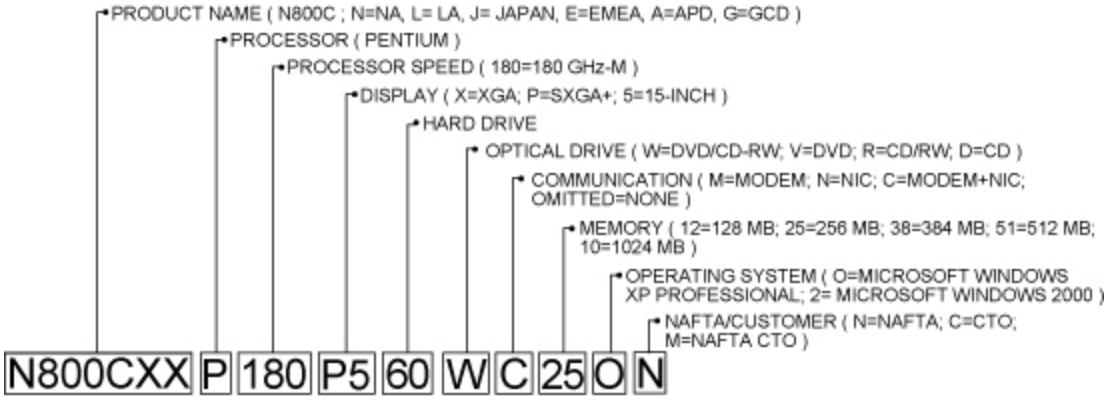
Standard Features

Power Conservation

Supports enhanced Intel SpeedStep Technology (allows a Battery Optimized Mode, Maximum Performance Mode, or Automatic mode)
Hibernation
Instant-on via Standby
Pop-ups with three presets
One custom level of power conservation
ACPI compliant

Naming Convention

The Etymology of a Model name:


PRODUCT NAME (N800C ; N=NA, L= LA, J= JAPAN, E=EMEA, A=APD, G=GCD)
PROCESSOR (PENTIUM)
PROCESSOR SPEED (180=180 GHz-M)
DISPLAY (X=XGA; P=SXGA+; 5=15-INCH)
HARD DRIVE
OPTICAL DRIVE (W=DVD/CD-RW; V=DVD; R=CD/RW; D=CD)
COMMUNICATION (M=MODEM; N=NIC; C=MODEM+NIC; OMITTED=NONE)
MEMORY (12=128 MB; 25=256 MB; 38=384 MB; 51=512 MB; 10=1024 MB)
OPERATING SYSTEM (O=MICROSOFT WINDOWS XP PROFESSIONAL; 2= MICROSOFT WINDOWS 2000)
NAFTA/CUSTOMER (N=NAFTA; C=CTO; M=NAFTA CTO)
N800CXX P 180 P5 60 W C 25 O N

Models

N800CP200P530VC250
P/N 470049-077

Display	15-inch color TFT SXGA+
Processor	2.0 GHz-M on Mobile Intel Pentium 4 processor
Cache Memory	512KB, L2 Cache
Memory	Standard 256 MB 266 MHz SDRAM
	Maximum 1024 MB 266 MHz SDRAM
Optical Drive	DVD
Hard Drive	30-GB SMART
Communications	Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC
Graphics	ATI Mobility Radeon 7500, 64-bit video graphics
Video memory	32-MB DDR SDRAM
Audio	JBL Pro Speakers with bass reflex and 16-bit stereo sound
Operating System	Windows XP-Pro
Pointing Device	Dual Pointing Device

Standard Features

N800CP200P530VC252 P/N 470049-138	**Display**	15-inch color TFT SXGA+
	Processor	2.0 GHz-M on Mobile Intel Pentium 4 processor
	Cache Memory	512KB, L2 Cache
	Memory	Standard 256 MB 266 MHz SDRAM
		Maximum 1024 MB 266 MHz SDRAM
	Optical Drive	DVD
	Hard Drive	30-GB SMART
	Communications	Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC
	Graphics	ATI Mobility Radeon 7500, 64-bit video graphics
	Video memory	32-MB DDR SDRAM
	Audio	JBL Pro Speakers with bass reflex and 16-bit stereo sound
	Operating System	Windows 2000
	Pointing Device	Dual Pointing Device
N800CP220P540WC10O P/N 470050-130	**Display**	15-inch color TFT SXGA+
	Processor	2.2 GHz-M on Mobile Intel Pentium 4 processor
	Cache Memory	512KB, L2 Cache
	Memory	Standard 512 MB 266 MHz SDRAM
		Maximum 1024 MB 266 MHz SDRAM
	Optical Drive	DVD/CD-RW
	Hard Drive	60-GB SMART 5400 RPM
	Communications	Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC
	Graphics	ATI Mobility Radeon 7500, 64-bit video graphics
	Video memory	64-MB DDR SDRAM
	Audio	JBL Pro Speakers with bass reflex and 16-bit stereo sound
	Operating System	Windows XP-Pro
	Pointing Device	Dual Pointing Device
N800CP220P540WC102 P/N 470050-129	**Display**	15-inch color TFT SXGA+
	Processor	2.2 GHz-M on Mobile Intel Pentium 4 processor
	Cache Memory	512KB, L2 Cache
	Memory	Standard 512 MB 266 MHz SDRAM
		Maximum 1024 MB 266 MHz SDRAM
	Optical Drive	DVD/CD-RW
	Hard Drive	60-GB SMART 5400 RPM
	Communications	Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC
	Graphics	ATI Mobility Radeon 7500, 64-bit video graphics
	Video memory	64-MB DDR SDRAM
	Audio	JBL Pro Speakers with bass reflex and 16-bit stereo sound
	Operating System	Windows 2000
	Pointing Device	Dual Pointing Device

Standard Features

N800CP240P540R25O
P/N DH906A#ABA

Display	15-inch color TFT SXGA+
Processor	2.4 GHz-M on Mobile Intel Pentium 4 processor
Cache Memory	512KB, L2 Cache
Memory	Standard 256 MB 266 MHz SDRAM
	Maximum 1024 MB 266 MHz SDRAM
Optical Drive	DVD/CD-RW
Hard Drive	40-GB SMART 5400 RPM
Communications	Type III Mini PCI 56K (V.92) modem, (LOM) integrated 10/100 NIC
Graphics	ATI Mobility Radeon 7500, 64-bit video graphics
Video memory	64-MB DDR SDRAM
Audio	JBL Pro Speakers with bass reflex and 16-bit stereo sound
Operating System	Windows XP-Pro
Pointing Device	Dual Pointing Device

Options

Memory	512-MB (266 MHz) Memory Upgrade	269087-B25
	256-MB (266 MHz) Memory Upgrade	269086-B25
	128-MB (266 MHz) Memory Upgrade	269085-B25
MultiBay Devices	24X DVD/CD-RW (Combo) Drive	269089-B25
	24X10x24x CD-RW Drive	DC921A
	8X DVD-ROM Drive	138230-B25
	24X CD-ROM Drive	298452-B25
MultiBay Storage	1.44-MB Diskette Drive	226935-B25
	30-GB Hard Disk Drive	212791-B25
	40-GB Hard Disk Drive	263472-B25
	60-GB Hard Disk Drive 5400 RPM	278420-B25
Wireless Connectivity	802.11b MultiPort Wireless LAN module	283836-001
	Bluetooth MultiPort module	228057-B21
	Compaq WL110 Wireless LAN PC Card	191808-002
Expansion Bases	Port Replicator	307648-002
	Advanced Port Replicator	307651-002
	External MultiBay (USB 2.0)	217388-001
	Advanced Port Replicator Monitor Stand	274407-B25
Power	Li-Ion 8-cell N800 Series primary battery	278418-B25
Common Power Solutions	Li-Ion 8-cell MultiBay battery	265651-B25
	External Battery Charger	DF933A#ABA
	External Battery Charger (Multiple Battery)	DF932A#ABA
	65W Auto Adapter	265649-B25
	AC Adapter 65W	265602-001
	AC Line Cord (10-ft)	217932-002
Input Devices	USB 2 Button scrolling Mouse (carbon) with USB to PS/2 adapter	103180-B22
	External 10-Key Numeric Keypad (carbon) *	294317-B21
	USB 102-Key Keyboard with USB to PS/2 adapter	118003-009
	USB Travel Mouse	F2100A
	NOTE: * = Requires the Port Replicator or Advanced Port Replicator.	
Security	Biometric PC Card	146805-B25
	Security Cable Lock	294316-B21
	Compaq Smart Card PC Card Reader	135646-B25

Options

Carrying Cases	Compaq Ultralight Case (nylon)	167336-B21
	Executive Nylon Case	DC916A
	Top Load Leather Case	DC917A
	Top Load Nylon Case	DC915A
	Sport Backpack	DG102A
	Compaq Leather Notepac	249245-001
	NOTE: For additional Compaq Brand cases, visit: http://www.compaq.com/products/notebooks/options/cases.html	

Memory

Compaq Evo N800c

Standard Memory

0-MB of memory on system board, 2 Slots total
1-256-MB DIMM installed in Slot 1
1-Additional open Memory Slot

Memory	Slot 1	Slot 2
	256 MB	Empty

Standard Memory Plus Optional Memory

Support for up to 1 GBof DDR SDRAM memory is available with the installation of optional DDR SDRAM Memory Kits.

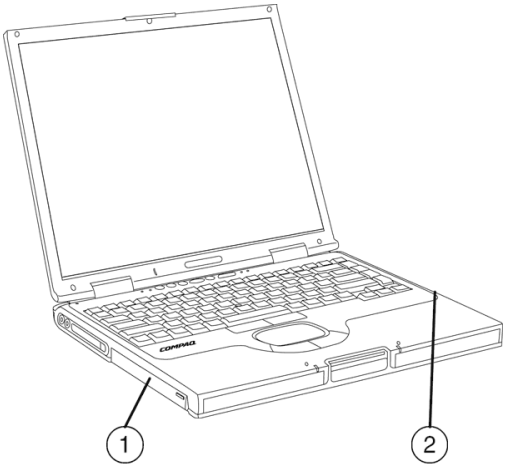
Memory	Slot 1	Slot 2
256 MB	256 MB	-
384 MB	256 MB	128 MB
512 MB	512 MB	-
768 MB	512 MB	256 MB
1024 MB	512 MB	512 MB

NOTE: This chart does not represent all possible memory configurations. Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only Compaq branded memory modules to ensure compatibility.

Following are memory options available from Compaq:

- 512-MB (266 MHz) DDR SDRAM Memory Upgrade 269087-B25
- 256-MB (266 MHz) DDR SDRAM Memory Upgrade 269086-B25
- 128-MB (266 MHz) DDR SDRAM Memory Upgrade 269085-B25

Storage



1. MultiBay
2. Primary Hard drive

Drive Support

System Drive Support	Quantity Supported	Drive Supported
1.44-MB Diskette Drive	1	MultiBay
DVD/CD-RW Combo Drive	1	MultiBay
CD-RW Drive	1	MultiBay
DVD-ROM Drive	1	MultiBay
Max CD-ROM Drive	1	MultiBay
Super Disk 2X LS-120 Drive	1	MultiBay
Hard Drives		
60-GB 5400 rpm SMART Hard Drive	1	Dedicated hard drive bay
40-GB 4200 rpm SMART Hard Drive	1	Dedicated hard drive bay
30-GB 4200 rpm SMART Hard Drive	1	Dedicated hard drive bay
20-GB 4200 rpm SMART Hard Drive	1	Dedicated hard drive bay

System Unit	**Dimensions** (HxWxD)	15-inch and 14.1-inch TFT panel displays	1.4 x 12.9 x 10.5 in (3.6 x 32.8 x 26.7 cm)
	Weight	14.1-inch LCD, weight saver, 1 SODIMM	5.82 lb (2.64 kg*)
		15-inch LCD, CD-RW, DVD or CD-ROM, 1 SODIMM	6.6 lb (2.98 kg*)
	NOTE: * = Weight varies by configuration.		
	Stand-Alone Power Requirements	Nominal Operating Voltage (Li-Ion)	14.4 V (8-cell)
		Average Operating Power	15.8 W
		Peak Operating Power	38 W
		Power in suspend mode	< 800 mW
		Power in hibernation mode	< 100 mW
	Power Supply	Rated Input Voltage	90 to 264 VAC (auto-switching)
		Rated Input Current	< 60 W
		Rated Frequency	50 to 60 Hz
	Temperature	Operating	50° to 95° F (10° to 35° C)
		Non-operating	14° to 140° F (–10° to 60° C)
	Relative Humidity	Operating	10% to 90% relative humidity, non-condensing
		Non-operating	5% to 90% relative humidity, 101.6° F (38.7° C) Maximum wetbulb temperature
	Shock	Operating	10 G, 11 ms, half-sine
		Non-operating	60 G, 11 ms, half-sine
	Vibration	Operating	0.5 G zero-to-peak, 10 to 500 Hz, 0.25 oct/min sweep rate
		Non-operating	1.0 G, zero-to-peak, 10 to 500 Hz, 0.5 oct/min sweep rate
	Maximum Altitude (unpressurized)	Operating	0 to 10,000 ft (0 to 3,048 m)
		Non-operating	0 to 30,000 ft (0 to 9,144 m)

14.1-Inch Color TFT XGA Display	**Dimensions** (H x W)	11.24 x 8.43 in (28.6 x 21.4 cm)	
	Diagonal Size	14.1 in (35.7 cm)	
	Mounting	Internal Panel Supports, Side Mounted	
	Number of Colors	Up to 16.8 M	
	Contrast Ratio	150:1	
	Brightness	150nt typ	
	Pixel Resolution	Pitch	0.264 x 0.264 mm
		Format	1024 x 768
		Configuration	RGB stripe
	Backlight	Edge Lit	
	Character Display	80 x 25	
	Total Power Consumption	4.2 W	
	Viewing Angle	+/-35° degrees Horizontal, +15° /-35° Vertical (typical)	

15-Inch Color TFT UXGA Display	**Dimensions** (H x W)	11.8 x 9.0 in (30.4 x 22.8 cm)	
	Diagonal Size	15.0 in (38.0 cm)	
	Mounting	Internal Panel Supports, Side Mounted	
	Number of Colors	Up to 16.8 M	
	Contrast Ratio	150:1	
	Brightness	140nt typ	
	Pixel Resolution	Pitch	0.191 x 0.191 mm
		Format	1600 x 1200
		Configuration	RGB stripe
	Backlight	Edge Lit	
	Character Display	80 x 25	
	Total Power Consumption	6.5 W	
	Viewing Angle	+/-35° degrees Horizontal, +15° /-35° Vertical (typical)	
15-Inch Color TFT SXGA+ Display	**Dimensions** (H x W)	11.8 x 9.0 in (30.4 x 22.8 cm)	
	Diagonal Size	15.0 in (38.0 cm)	
	Mounting	Internal Panel Supports, Side Mounted	
	Number of Colors	Up to 16.8 M	
	Contrast Ratio	150:1	
	Brightness	150nt typ	
	Pixel Resolution	Pitch	0.218264 x 0.218264 mm
		Format	1280 x 1024
		Configuration	RGB stripe
	Backlight	Edge Lit	
	Character Display	80 x 25	
	Total Power Consumption	5.75 W	
	Viewing Angle	+/-35° degrees Horizontal, +15° /-35° Vertical (typical)	
15-Inch Color TFT XGA Display	**Dimensions** (H x W)	11.8 x 9.0 in (30.4 x 22.8 cm)	
	Diagonal Size	15.0 in (38.0 cm)	
	Mounting	Internal Panel Supports, Side Mounted	
	Number of Colors	Up to 16.8 M	
	Contrast Ratio	150:1	
	Brightness	150nt typ	
	Pixel Resolution	Pitch	0.297 x 0.297 mm
		Format	1024 x 768
		Configuration	RGB stripe
	Backlight	Edge Lit	
	Character Display	80 x 25	
	Total Power Consumption	5.0 W	
	Viewing Angle	+/-35° degrees Horizontal, +15° /-35° Vertical (typical)	

Hard Drives

60-GB 5400 rpm	MultiBay Drive Adapter	Dimensions (H x W x D)	1.27 x 13.25 x 12.61 cm (0.5 x 5.21 x 4.97 in)
		Weight	0.15 lb (70 g)
	Drive Weight	0.21 lb (95 g)	
	Capacity	60 GB	
	Height	0.374 in (9.5 mm)	
	Width	70 mm	
	Interface	ATA-5	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	Seek Time (typical reads, including settling)	Single Track	2.5 ms
		Average	12 ms
		Maximum	23 ms
	Rotational Speed	5400 rpm	
	Logical Blocks	117,210,240	
	Operating Temperature	41° to 131° F (5° to 55° C)	
	Features	Security	ATA Security
40-GB 4200 rpm	MultiBay Drive Adapter	Dimensions (H x W x D)	1.27 x 13.25 x 12.61 cm (0.5 x 5.21 x 4.97 in)
		Weight	0.15 lb (70 g)
	Drive Weight	0.21 lb (95 g)	
	Capacity	40 GB	
	Height	0.374 in (9.5 mm)	
	Width	70 mm	
	Interface	ATA-5	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	Seek Time (typical reads, including settling)	Single Track	3.0 ms
		Average	13 ms
		Maximum	25 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	78,140,160	
	Operating Temperature	41° to 131° F (5° to 55° C)	
	Features	Security	ATA Security

30-GB 4200 rpm	MultiBay Drive Adapter	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.15 lb (70 g)
	Drive Weight	0.22 lb (99 g)	
	Capacity	30 GB	
	Height	0.374 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-5	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	Seek Time (typical reads, including settling)	Single Track	2.5 ms
		Average	12 ms
		Maximum	23 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	58,605,120	
	Operating Temperature	41° to 131° F (5° to 55° C)	
	Features	Security	ATA Security
20-GB 4200 rpm	MultiBay Drive Adapter	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.15 lb (70 g)
	Drive Weight	0.21 lb (95 g)	
	Capacity	20 GB	
	Height	0.374 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-5	
	Transfer Rate	Synchronous (maximum)	100 MB/s (Drive Capability)
		Security	ATA Security
	Seek Time (typical reads, including settling)	Single Track	2.5 ms
		Average	12 ms
		Maximum	23 ms
	Rotational Speed	4200 rpm	
	Logical Blocks	~ 39,070,080	
	Operating Temperature	41° to 131° F (5° to 55° C)	
	Features	Security	ATA Security
External AC Adapter	Weight	0.6 lb (0.272 kg)	
	Power Supply (Input)	Operating Watts	65
		Operating Voltage	110 to 240 VAC RMS
		Operating Current	1.7 A RMS
		Operating Frequency Range	47 to 63 Hz AC
		Maximum Transient	4/50 kV

Lithium-Ion Battery Pack (8-cell)	**Dimensions** (L x W x D)	4.95 x 3.46 x 0.80 in (12.5 x 8.8 x 2.0 cm)	
	Weight	0.96 lb (0.43 kg)	
	Energy	Voltage	14.8 V
		Amp-hour capacity	Minimum 3.7 Ah Typical 3.9 Ah
		Watt-hour capacity	Minimum 53.2 Ah Typical 56.1 Ah
	Temperature	Operating	32° to 108°F (0° to 42°C)
		Non-operating	32° to 140°F (0° to 60°C)

24X DVD/CD-RW Combo Drive	**MultiBay Drive**	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.74 lb (0.33 kg)
	Center Hole Diameter	3.9 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 µm	
	Access Times (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 225 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB (minimum)	
	Data Transfer Rate (typical, including settling)	CD-R (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		CD-RW (10X)	1500 KB/s (150 KB/s at 1X CD rate)
		CD-ROM (24X)	3600 KB/s (150 KB/s at 1X CD rate)
		DVD (8X)	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 15 seconds	
	Stop Time	< 6seconds	

16X CD-RW Drive	MultiBay Drive	Dimensions (H x W x D)	1.27 x 13.25 x 12.61 cm (0.5 x 5.21 x 4.97 in)
		Weight	0.74 lb (0.33 kg)
	Center Hole Diameter	1.5 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 µm	
	Access Times (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 225 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB	
	Data Transfer Rate (typical, including settling)	CD-R (16X)	2400 KB/s
		CD-RW (8X)	1200 KB/s
		CD-ROM (24X)	3600 KB/s
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 15 seconds	
	Stop Time	< 6 seconds	

8X DVD-ROM Drive	MultiBay Drive	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.66 lb (0.3 kg)
	Center Hole Diameter	1.5 cm	
	Disk Diameter	12 cm/8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	0.74 µm	
	Access Times (typical reads, including settling)	Random (typical)	< 150 ms DVD Media
		Full-Stroke (typical)	< 225 ms DVD Media
		Random (typical)	< 110 ms CD Media
		Full-Stroke (typical)	< 200 ms CD Media
	Cache Buffer	512 KB/s (minimum)	
	Data Transfer Rate (typical, including settling)	Max 24X CD	3600 KB/s (150 KB/s at 1X CD rate)
		Max 8X DVD	10,800 KB/s (1352 KB/s at 1X DVD rate)
		Normal PIO Mode 4 (single burst)	16.6 MB/s
	Start-up Time	< 10 seconds	Single Session CD-ROM
	Stop Time	< 3 seconds	

24X CD-ROM Drive	**MultiBay Drive**	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.50 lb (0.22 kg)
	Applicable Disk	CD-ROM (Mode 1, 2 and 3), CD-XA ready (Mode 2, Form 1 and 2), CD-I ready (Mode 2, Form 1 and 2), CD-R (read only), CD Plus, Photo CD (Single and Multi-session), CD-Extra, Video CD, CD-WO (fixed packets only), CD-Bridge	
	Center Hole Diameter	15 mm	
	Disk Diameter	12 cm, 8 cm	
	Disk Thickness	1.2 mm	
	Track Pitch	1.6 µm	
	Access Times (typical reads, including settling)	Random	< 150 ms
		Full-Stroke	< 300 ms
	Audio Output Level	Line-out	0.7 Vrms
	Cache Buffer	128 KB	
	Data Transfer Rate (typical, including settling)	Sustained (16X)	2400 KB/s
		Variable	1500 to 3600 KB/s (10X to 24X)
		Normal PIO Mode 4 (single burst)	16.66 MB/s
	Start-up Time	< 8 seconds	
	Stop Time	< 4 seconds	

MultiBay Diskette Drive	**MultiBay Drive**	Dimensions (H x W x D)	0.5 x 5.21 x 4.97 in (1.27 x 13.25 x 12.61 cm)
		Weight	0.51 lb (230 g)
	Diskette Size	3.5 in	
	Height	12.7 mm	
	Bytes per Sector	512	
	Sectors per track	High density	18 (1.44 MB)/15 (1.2 MB)
		Low density	9
	Tracks per side	High density	80 (1.44 MB)/80 (1.2 MB)
		Low density	80
	Read/Write heads	2	
	Access Times	Track-to track (high/low)	3 ms/6 ms
		Average (high/low)	94 ms/174 ms
		Settling time	15 ms
		Latency average	100 ms

Audio	Features	SoundMAX
	Wavetable Synthesis	
	# of Voices	Up to 1024 (CPU dependent)
	# of MIDI Channels	16
	Max. Sound Set Size	Unlimited (host RAM dependent)
	Sound Set Formats	DLS (Level 1), XGlite
	Bundled GeneralMIDI Sound Set(s)	1.2 MB XGlite
	Built-In Effects	Reverb and Chorus
	Sound Blaster PRO Emulation	Yes
	3D Positioning / Environments	
	Formats Supported	I3DL2 / DS3D 7 / EAX 2 / A3D 1
	Environmental Acoustics	EnvironmentFX (EAX compatible)
	Additional 3D APIs	MacroFX / ZoomFX
	Standard HRTFs	2 Channel
	Hardware	
	Implimentation	AC97 CODEC
	Audio Signal Link to CPU	Audio CODEC (AC) link
	Full Duplex	Yes
	Stereo Inputs	Line In - 20K Impedance
	Mono Inputs	Microphone - 20K Impedance
	Stereo Outputs	Analog, S/PDIF from Port Rep
	Audio Output Quality	
	Frequency Response	20 Hz - 20 kHz
	Signal to Noise Ratio	>94dB
	Total Harmonic Distortion	0.01%
	Noise Floor	-120dB
	Play/Record Sampling Rate(s)	7 kHz - 48 kHz
	AD/DA Resolution	16 bit
	Speakers	
	Amplifier Power	2-Watts RMS
	Speaker Impedance	4-Ohms

802.11b MultiPort Module	**Form Factor**	Compaq "MultiPort"	
	Weight	0.22 lb (100 g) (maximum)	
	Operating Temperature	Operating	14° to 149° F (–10° to 65° C)
	Storage Temperature	Non-operating	–40° to 176° F (–40° to 80° C)
	Humidity	Operating	10% to 90%
		Non-operating	5% to 95%
	Altitude	Operating	0 to 15,000 ft (4,572 m)
		Non-operating	0 to 40,000 ft (12,192 m)
	Plug and Play	USB 1.1 compliant Microsoft Windows Plug and Play compliant	
	RF Network Standard	IEEE 802 Part 11b (802.11b)	
	Frequency Band	2.4000 to 2.4835 GHz 2.4465 to 2.4835 GHz (France) 2.4000 to 2.4697 GHz (Japan)	
	Number of Selectable Sub-channels	**Worldwide Certification**	
		United States (FCC)	11
		France (FR)	4
		Japan (JP)	14
		Other countries	13
	Data Rates	1, 2, 5.5, 11 Mbps	
	Antenna type	Internally integrated within module (with special polarization diversity)	
	WEP Security	64-bit encryption keys compliant to IEEE 802.11 128-bit encryption key compliant to IEEE 802.11 Ability to enter keys manually or via pass-phrase	
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)	
	Modulation Technique	Direct Sequence Spread Spectrum: DBPSK, DQPSK, CCK	
	Receiver Sensitivity – Bit Error Rate (1E-5)	11 Mbps: -85 dBm 5.5 Mbps: -87 dBm 2 Mbps: -91 dBm 1 Mbps: -94 dBm	
	Maximum Receive Level	–4 dBm	
	Output Power (approximately)	18 dBM	
	Operating Voltage	5V power operation	
	Power Management	Keystroke Fn+F2 Power On/Off control	
	Power Consumption	Transfer mode: < 600 mA, maximum Receive mode: > 400 mA, maximum Standby mode: > 1 mA, maximum	
	Transmit Power	10 to 100mW It is preferable to have the user configurable output power to save battery life for laptop users or in high AP coverage areas	
	Power Saving Option	802.11 Compliant Power Saving Power Saving Mode selectable through the configuration utility ACPI compliant power management	
	Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK	
	OS Support	Microsoft Windows 98/98SE Microsoft Windows 2000 Microsoft Windows Millennium	
	Protocols Supported	TCP/IP IPX/SPX UDP	

LED Activity	Flashing LED – AP Search Mode Solid LED – On LED Off – Power Off	

Throughput, Data Rate and Operating Distance	Throughput	Data Rate	Operating Distance
	> 4.5 Mbps	11 Mbps	• 1000 feet – Open sight • 100 feet – Closed space (Steel Space)
	> 2 Mbps	5.5 Mbps	• 1100 feet – Open sight • 200 feet – Closed space (Steel Space)
	> 700 Kbps	1 Mbps	• 1200 feet – Open sight • 300 feet – Closed space (Steel Space)

Bluetooth MultiPort Module			
	Form Factor	Compaq "MultiPort"	
	Bluetooth	1.1 Compliant	
	Dimensions	2.2 x 6.6 x 0.55 in (5.6 x 16.7 x 1.4 cm)	
	Weight	0.22 lb (100 g) (maximum)	
	Temperature	Operating	-50° to 104° F (10° to 40° C)
		Non-operating	–4° to 140° F (–20° to 60° C)
	Humidity	Operating	10% to 90%
		Non-operating	5% to 95%
	Altitude	Operating	0 to 10,000 ft (3,048 m)
		Non-operating	0 to 30,000 ft (9,144 m)
	Plug and Play	USB 1.1 compliant	
		Microsoft Windows Plug and Play compliant	
	Frequency Band	2.4000 to 2.4835 GHz	
	Number of Available Channels	79 (1 MHz) available channels	
	Data Rates and throughput	1 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 723.2 kbps/57.6 kbps asymmetric or 433.9 kbps symmetric	
	Antenna type	Internally integrated within module (with special polarization diversity)	
	Range	328 ft (100 m)	
	Profile Support	General Access Profile Service Discovery Application Profile Serial Port Profile Generic Object Exchange Profile File Transfer Profile Synchronization Profile Dial-Up Networking Profile LAN Access Profile Object Push Profile	
	Usage Models	Service Discovery (determine what Bluetooth devices are within range and support authorization)	
		Synchronization: PDAs to PCs Portable to Desktop	
		File Transfer: File and directory browsing and navigation on another Bluetooth device. File copying Object manipulation – including add, delete, create new folders etc.	
		Wireless link to Corporate LAN using several Bluetooth devices sharing the same	
		Access Point:	

	Corporate email, network neighborhood, access to LAN applications, file transfer, ftp, Internet browsing, etc, using TCP/IP Wireless link to WAN thru cell phone GSM/SMS, PCS, PHS, DECT, RAM, ARDIS, CDPD, etc. Agnostic to WAN technology Send/receive SMS messages Wireless link to Printer Adhoc peer to peer networking (two computers) or Personal Area Networking (PAN) using NDIS (< 7 computers) Adhoc Bluetooth Pico-networking (point to multi-point) Object Push – Business card or appointment exchange
Transmit Power	< 20 dBM (Bluetooth Class 1)
Receive Sensitivity	Better than –70 dBM at 0.1 % raw bit error rate
Link Topology	Point to Point, Multipoint Pico Nets up to 7 slaves
Security	Full support of Bluetooth Security Provisions
Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)
Power Requirement	Peak < 1500 mW Average < 500 mW Standby < 250 mW
Power Management	Microsoft Windows ACPI, and USB Bus Support Keystrokes Fn+F2 Power On/Off control Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
OS Support	Microsoft Windows XP Professional Microsoft Windows 2000 Microsoft Windows 98/98SE Microsoft Windows Millennium
Protocols Supported	TCP/IP IPX/SPX UDP
LED Activity	Solid Blue LED – On LED Off – Power Off
Certifications	All necessary regulatory approvals for countries we support including FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark

Type III Mini PCI 56K (V.92) **Modem**	**Form Factor**	Mini-PCI Type III per Specification
	Power Management Support	APM Revision 1.2, ACPI, Compaq Power Management Extensions for Microsoft Windows NT®
	Approvals/ Certifications	UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE Mark, Other Countries
	Data Mode Capabilities	V.90 (a-law, mu-law) K56flex (a-law, mu-law) V.8bis V.80 V42.bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction) V.34 (file date: 10/96) **Optional symbol rates:** 2800, 3429 Asymmetric Symbol rates **Synchronous primary channel data signaling rates:** 3600, 31200 Automatic rate re-negotiation V.32bis V.32 V.23 V.22bis V.22 V.21 Bell 212A Bell 103J
	Fax Mode Capabilities	TIA-578-S (Class 1) T.30, T.4 (Group 3) V.17 V.29 V.27ter V.21 Channel 2
	Command Set	V.250 (Partial) TIA-602 Identification: +GMI, +GMM, +GMR Port control: +IPR, +ICF, +IFC, +ILRR Modulation: +MS, +MR, +MA Error control: +ES, +ER, +EB, +ESR, +ETBM Data compression: +DS, +DR V.251

Integrated 10/100 NIC	NIC Device Driver Name	Intel PRO/100 P Mobile Combo Adapter
	Data Link Layers	IEEE 802.2 LLC SNAP
	Ethernet Features	10 Mbps Ethernet: IEEE 802.3 standard 10BASE-T 100 Mbps Ethernet: IEEE 802.3u standard 100BASE-TX Full Duplex at 10 and 100Mbps Auto-Negotiation Wake on LAN from all power managed states, including soft off (S5) Boot on LAN from OFF Lower Power State on Link Loss
	Software support	IBM LAN Server Version 1.2, 1.3, 2.0, 4.0 Microsoft NT 3.51, NT 4.0. Microsoft Windows 2000 Novell® Netware® 3.1x, 4.x, 5.x
	Protocol support	TCP/IP Novell IPX/SPX and Microsoft compatible Novel IPX ODI Microsoft NetBEUI IBM DLC

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